

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International publication date
2 June 2005 (02.06.2005)

PCT

(10) International publication number
WO 2005/049411 A1

(51) International patent classification⁷:
25/14, B29C 65/00

B62D 29/00,

(74) Joint Representative: BEHR GMBH & CO. KG;
Intellectual Property, G-IP, Mauserstrasse 3, 70469
Stuttgart (DE).

(21) International application number: PCT/EP2004/013185

(22) International filing date: 19 November 2004 (19.11.2004)

(81) Designated states (unless otherwise indicated, for
every kind of national protection available): AE, AG,
AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY,
BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC,
EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,
IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Language of filing: German

(26) Language of publication: German

(30) Data relating to the priority:
103 54 120.9 19 November 2003 (19.11.2003) DE

(84) Designated states (unless otherwise indicated, for
every kind of regional protection available): ARIPO
patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL,
SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM), European patent (AT, BE,

(71) Applicant (for all designated States except US): BEHR
GMBH & CO. KG [DE/DE]; Mauserstrasse 3, 70469 Stuttgart
(DE).

(72) Inventors; and

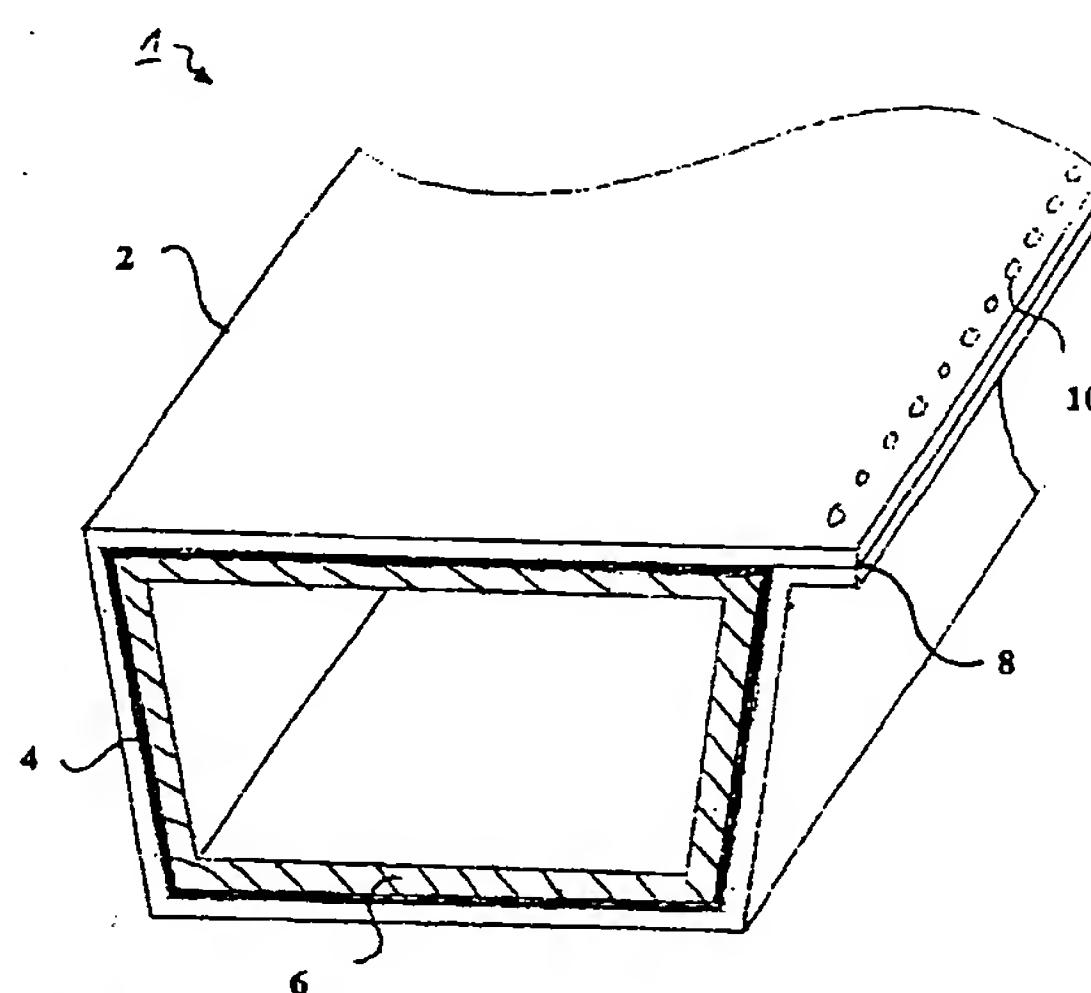
(75) Inventors/Applicants (US only): SPECHT, Gregor [DE/DE];
Hördtstrasse 64, 70435 Stuttgart (DE).

[continued on next page]

As printed

(54) Title: COMPONENT, PARTICULARLY A LIGHTWEIGHT HYBRID COMPONENT

(54) Bezeichnung: BAUTEIL, INSbesondere HYBRIDBAUTEIL IN LEICHTBAUWEISE



WO 2005/049411 A1

(57) Abstract: The invention relates to a component (1) comprising a particularly shell-shaped base carrier (2) and at least one core element (6). The aim of the invention is to provide an improved component (1), wherein an intermediate layer (5) is inserted in between the base carrier (2) and the core element (6) in order to compensate tolerances, resulting in a positive power flow via the intermediate layer (4) and improved tolerance compensation.

[continued on next page]

BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,
HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

Declaration under Rule 4.17

- *of inventorship (Rule 4.17(iv)) for the following designation US*

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.

Published:

- *With International Search Report.*

(57) **Zusammenfassung:** Die Erfindung bezieht sich auf einen Bauteil (1), umfassend einen insbesondere schalenförmigen Grundträger (2) und mindestens ein Kernelement (6). Um ein verbessertes Bauteil (1) bereitzustellen, wird vorgeschlagen, dass zwischen dem Grundträger (2) und dem Kernelement (6) eine Toleranzen ausgleichende Zwischenlage (4) eingebracht wird, was zu einem formschlüssigen Kraftfluss über die Zwischenlage (4) und einen verbesserten Toleranzausgleich führt.